2002 –2012 Occupational Projections

Occupational Title	Minimum Education Requirements	** Total Annual Openings	1st Qtr. 2005 Hourly Wage Range
Telecommunications Equipment Installers and Repairers, Except Line Installers	Postsecondary voc.	50	$ 14.66 - 25.08
Computer Support Specialists	Associate degree	120	$ 13.80 - 22.32
Database Administrators	Bachelor's degree	20	$ 16.83 - 29.78
Computer Programmers	Bachelor's degree	100	18.24 - 31.91
Network Systems and Data Communications Analysts	Bachelor's degree	70	19.15 - 27.35
Network and Computer Systems Administrators	Bachelor's degree	80	20.04 - 33.04
Computer Systems Analysts	Bachelor's degree	210	21.61 - 34.47
Computer Software Engineers, Applications	Bachelor's degree	70	22.06 - 34.82
Computer Software Engineers, Systems Software	Bachelor's degree	40	24.10 - 42.16
Computer and Information Systems Managers	Wk Exp.+ Bachelor's or higher degree	100	$ 18.86 - 40.27

**Total Annual Openings = New job growth plus replacement needs due to turnover.

Occupations in the Spotlight

Computer Systems Analysts

Analyze science, engineering, business, and all other data processing problems for application to electronic data processing systems.

♦ Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming
♦ Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications
♦ Knowledge of principles and processes for providing customer and personal service

Required WorkKeys® Scores:

AM	LI	RI
5	5	5

Computer Software Engineers, Applications

Plan, coordinate, and implement security measures for information systems to regulate access to computer data files and prevent unauthorized modification, destruction, or disclosure of information.

♦ Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software
♦ Knowledge of business and management principles

Required WorkKeys® Scores:

AM	LI	RI
Not Yet Available		

AM = Applied Mathematics
LI = Locating Information
RI = Reading for Information

WorkKeys® **assessments** give students and workers reliable, relevant information about workplace skill levels. Combined with information about skill levels required for jobs, assessments information can help students make better career and educational decisions. Louisiana uses three WorkKeys® assessments as the foundation for awarding career readiness certificates. For more information, contact the Workforce Education and Training Office at the Louisiana Board of Regents (225-342-4253).

LOUISIANA
Opportunities in

The Information Technology careers involve the design, development, support and management of hardware, software, multimedia and systems integration.

FASTEST GROWING JOBS

- Network Systems and Data Communications Analysts
- Computer Software Engineers, Systems Software
- Database Administrators
- Computer Systems Analysts
- Network and Computer Systems Administrators

"This document was produced as a collaborative endeavor between the Louisiana Departments of Labor, Education and the Board of Regents".

An Equal Opportunity Employer
Auxiliary Aids and Services are available upon request to individuals with disabilities

FEBRUARY, 2006

This brochure is designed to provide assistance to students as they prepare to make decisions about course selection, their career options and future plans.

The Career Options Law (Act 1124) mandates that all high school students have a five-year educational plan and that all high schools offer career majors/areas of concentrations. It is the intent of the law that students have a focus while in school to help make learning more relevant and meaningful.

Students in 6th – 8th grades must complete at least six career awareness activities which help students to develop a five-year educational plan. It also requires school systems to offer areas of concentrations to address students' interests.

The Five-Year Educational Plan
Students must complete this plan at the end of their 8th grade year with input from their counselor and/or advisor and family. This plan must be reviewed and revised on an annual basis throughout high school with student, parent and counselor/advisor signatures each year.

Top Employing Industries

Industry *(based on North American Classification System NAICS)*	2002	2012	Number of New Jobs	Percent Change
Computer Systems Design and Related Services	4,965	7,690	2,725	55.0%
Federal Government	31,014	29,430	-1,584	-5.1%
State Government	48,421	51,020	2,599	5.4%

Information Technology Cluster
High School Areas of Concentrations (2006 – 2007)

Diploma Endorsements will help provide for students the preparation necessary for college and/or a career. By the same token employers will be getting better prepared workers, and higher education institutions will have students better prepared for success in their post secondary institutions. These endorsements help students to maximize their 11th and 12th grades, encourage more students to take Advanced Placement courses, encourage students to take advantage of career and technical education courses and opportunities, as well as hold high schools accountable for what is taught during the 11th and 12th grades. Students can complete the necessary requirements for two different diploma endorsements:

- Academic Endorsement
- Career and Technical Endorsement

Please see your guidance counselor for further details.

The Louisiana WORK**Ready! Certificate** is a portable credential that signifies to an employer that an individual has achieved acceptable levels in the foundation skills necessary for success in the workplace and gives Louisiana citizens a "key to work". Issued by the Workforce Commission, the Certificate is a tool that helps employers identify qualified candidates to fill the openings they have in their businesses.

People who attain the Certificate, which will display their workplace readiness skill levels, will have an advantage as they pursue their career goals. The Certificate increases the likelihood that business will receive a well-trained, highly skilled worker and that education will prepare students for available jobs. For more information, contact the Workforce Commission at 225-342-2094 or the Board of Regents at 225-342-4253.

Career Cluster
Information Technology

Areas of Concentrations
Computer Electronics
Computer Engineering Systems
Computer Science
Information Systems
NAF – Academy of Information Technology

Post Secondary Programs
Computer System Networking
Electronics & Computer Engineering Technology
Network Specialist
Applied Computer Science
Computer Science
Computer Engineering
Web Administrator
Computer & Information Science & Support Services
Computer and Information Sciences
Information Systems Applications

Training Programs Related Certification(s):
IC3
Cisco Certified Internetwork Expert Certification
CompTIA Certification A+
Mobile Electronics Certification
Microsoft Certified Professional
Microsoft Certified Systems Engineer
Corel Certified Proficient User
Microsoft Office Specialist
Radio Television Technician License

For more information on course selection visit our web site:
http://www.doe.state.la.us/lde/curriculum/home.html